

IN THE CLAIMS:

After granting the application a filing date, and before calculating the fee, please cancel
Claims 27-39.

1. (Original) A method of creating a non-hydrochlorofluorocarbon refrigerant mixture, capable
of providing temperatures as low as about -150° C, comprising the steps of:

adding non-hydrochlorofluorocarbon refrigerants to refrigerant R740.

2. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon
refrigerants consist of:

R14;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and
R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and
R1150.

3. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon
refrigerants consist of:

R14;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

4. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

R50;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

5. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

R50;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

6. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;

any one refrigerant from the group consisting of R134a, R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

7. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consists of:

R14;

R50;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R134a, R152a and R290; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

8. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consists of:

R50;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and

R600a;

any one refrigerant from the group consisting of R134a, R152a and R290; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and

R1150.

9. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and

R600a;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and

R1150.

10. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consists of:

R14;

R50;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

11. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

12. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

13. (Original) The refrigerant mixture of claim 1, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

14. (Original) A non-hydrochlorofluorocarbon refrigerant mixture for use in a refrigeration system capable of providing temperatures as low as about -150° C, consisting of:

R740 and at least four non-hydrochlorofluorocarbon refrigerants.

15. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

16. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

17. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

R50;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

18. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

R50;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

19. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;

any one refrigerant from the group consisting of R134a, R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

20. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

R50;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R134a, R152a and R290; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

21. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R134a, R152a and R290; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

22. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

any one refrigerant from the group consisting of R134a; R152a and R290;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

23. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

R50;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

24. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R14;

any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and R600a;

any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and

any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and R1150.

25. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;
any one refrigerant from the group consisting of R134a; R152a and R290;
any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and
any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and
R1150.

26. (Original) The refrigerant mixture according to claim 14, wherein said non-hydrochlorofluorocarbon refrigerants consist of:

R50;
any one refrigerant from the group consisting of R227ea, R236fa, RC318, R600 and
R600a;
any one refrigerant from the group consisting of R236ea, R245ca and R245fa; and
any one refrigerant from the group consisting of R23, R116, R170, R508a, R508b and
R1150.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)